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PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

FIRST NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION (TO DESIGNATED OFFICES WHICH DO NOT APPLY THE 30 MONTH TIME LIMIT UNDER ARTICLE 22(1))

(PCT Rule 47.1(c))

To:

OKABE, Masao No. 602, Fuji Bldg. 2-3, Marunouchi 3-chome Chiyoda-ku, Tokyo 1000005 JAPON



12 January 2006 (12.01.2006)

Applicant's or agent's file reference 10003897WO01

Date of mailing (day/month/year)

IMPORTANT NOTICE

International application No. PCT/JP2005/010998

International filing date (day/month/year) 09 June 2005 (09.06.2005)

Priority date (day/month/year)
11 June 2004 (11.06.2004)

Applicant

CANON KABUSHIKI KAISHA et al

- ATTENTION: For any designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002 (30 months from the priority date), does apply, please see Form PCT/IB/308(Second and Supplementary Notice) (to be issued promptly after the expiration of 28 months from the priority date).
- Notice is hereby given that the following designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002, does not apply, has/have requested that the communication of the international application, as provided for in Article 20, be effected under Rule 93bis.1. The International Bureau has effected that communication on the date indicated below:
 22 December 2005 (22.12.2005)

СН

In accordance with Rule 47.1(c-bis)(i), those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

3. The following designated Offices, for which the time limit under Article 22(1), as in force from 1 April 2002, does not apply, have not requested, as at the time of mailing of the present notice, that the communication of the international application be effected under Rule 93bis.1:

LU, SE, TZ, UG, ZM

In accordance with Rule 47.1(c-bis)(ii), those Offices accept the present notice as conclusive evidence that the Contracting State for which that Office acts as a designated Office does not require the furnishing, under Article 22, by the applicant of a copy of the international application.

4. TIME LIMITS for entry into the national phase

For the designated Office(s) listed above, and unless a demand for international preliminary examination has been filed before the expiration of 19 months from the priority date (see Article 39(1)), the applicable time limit for entering the national phase will, subject to what is said in the following paragraph, be 20 MONTHS from the priority date.

In practice, time limits other than the 20-month time limit will continue to apply, for various periods of time, in respect of certain of the designated Offices listed above. For regular updates on the applicable time limits (20 or 21 months, or other time limit), Office by Office, refer to the PCT Gazette, the PCT Newsletter and the PCT Applicant's Guide, Volume II, National Chapters, all available from WIPO's Internet site, at http://www.wipo.int/pct/en/index.html.

It is the applicant's sole responsibility to monitor all these time limits.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Masashi Honda

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 70 10

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL OKABE, Masao No. 602, Fuji Bldg. SEARCHING AUTHORITY, OR THE DECLARATION 2-3, Marunouchi 3-chome Chiyoda-ku Tokyo 1000005 JAPAN (PCT Rule 44.1) Date of mailing (day/month/year) 05/12/2005 Applicant's or agent's file reference FOR FURTHER ACTION See paragraphs 1 and 4 below 10003897WO01 International filing date International application No. (day/month/year) 09/06/2005 PCT/JP2005/010998 Applicant CANON KABUSHIKI KAISHA The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. 1. X Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): The time limit for filing such amendments is normally two months from the date of transmittal of the International Search Report. International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41-22) 338.82.70 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90*bis*.1 and 90*bis*.3, respectively, before the completion of the technical preparations for international publication. The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

Name and	mailing ad	dress of the ir	iterna	tional Searching Authority
		Dotoot Office		EQ10 Detention 2

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk

Guide, Volume II, National Chapters and the WIPO Internet site.

Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Fax: (+31-70) 340-3016

Authorized officer

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's

Alicja Van der Heijden

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220 as, where applicable, item 5 below.			
10003897W001	ACTION as well					
International application No.	International filing date (day/month/year)		(Earliest) Priority Date (day/month/year)			
PCT/JP2005/010998	09/06/2005		11/06/2004			
Applicant						
CANON KABUSHIKI KAISHA						
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Seansmitted to the International Burea	arching Aut	hority and is transmitted to the applicant.			
This International Search Report consists	of a total of 3 s	neets.				
i e	a copy of each prior art document		report.			
4 Paris of the second						
Basis of the report a. With regard to the language, the language in which it was filed, units and the language.	international search was carried ou less otherwise indicated under this	it on the ba item.	sis of the international application in the			
The International this Authority (Ru		s of a trans	lation of the international application furnished to			
b. With regard to any nucle	otide and/or amino acid sequenc	e disclosed	in the international application, see Box No. I.			
2. Certain claims were fou	nd unsearchable (See Box II).					
3. Unity of invention is lac	king (see Box III).					
4. With regard to the title,						
X the text is approved as so	ubmitted by the applicant.					
the text has been establis	shed by this Authority to read as fo	lows:				
Ì			-			
			•			
5. With regard to the abstract,						
r	ubmitted by the applicant.					
the text has been establi	shed, according to Rule 38.2(b), by	this Author	rity as it appears in Box No. IV. The applicant			
may, within one month fr	may, within one month from the date of mailing of this international search report, submit comments to this Authority.					
6. With regard to the drawings,						
a. the figure of the drawings to be	published with the abstract is Figur	e No				
as suggested by the applicant.						
as selected by th	nis Authority, because the applican	tailed to su	uggest a figure.			
`	his Authority, because this figure be	tter charac	terizes the invention.			
b. none of the figures is to l	be published with the abstract.					

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2005/010998

A. CLASSIFICATION OF SUBJECT MATTER C08G63/688 C08G63/06 C08G63/91						
According to International Patent Classification (IPC) or to both national classification and IPC						
	SEARCHED					
	ocumentation searched (classification system followed by classification COSG	ion symbols)				
Documenta	tion searched other than minimum documentation to the extent that	such documents are included in the lields so	arched			
Electronic d	data base consulted during the international search (name of data ba	ase and, where practical, search terms used)			
EPO-In	ternal, WPI Data, PAJ					
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where appropriate, of the re-	elevant passages	Relevant to claim No.			
A	EP 1 336 635 A (CANON KABUSHIKI 20 August 2003 (2003-08-20) claim 2	KAISHA)	1			
A	WO 2004/038512 A (CANON KABUSHIK MIHARA, CHIEKO; YANO, TETSUYA; K SHINYA;) 6 May 2004 (2004-05-06) claim 1	3				
Α	WO 2004/044213 A (CANON KABUSHIK KENMOKU, TAKASHI; YANO, TETSUYA; CHIEK) 27 May 2004 (2004-05-27) claim 1	4				
P,A	WO 2004/061530 A (CANON KABUSHIK MIHARA, CHIEKO; YANO, TETSUYA; K SHINYA;) 22 July 2004 (2004-07-2 claim 1	OZAKI,	1			
Fu	rther documents are listed in the continuation of box C.	χ Patent family members are listed	in annex,			
T later document published after the international filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the invention.						
filing "L" docun	r document but published on or after the international adde date nent which may throw doubts on priority claim(s) or	'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone				
citati "O" docur	which is cited to establish the publication date of another citation or other special reason (as specified) *O* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document of the release of the claimed inventive step when the document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled					
P' docur	r ment published prior to the International filing date but than the priority date claimed	in the art. *&* document member of the same patent family				
Date of the actual completion of the international search Date of mailing of the international search report						
	25 November 2005	05/12/2005				
Name and	d mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer				
	NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Niaounakis, M				

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/JP2005/010998

Patent document cited in search report		Publication date		Patent family member(s)	Publication date	
EP 1336635	A	20-08-2003	CN JP JP US	1446835 A 3689697 B2 2004197063 A 2004081906 A1	08-10-2003 31-08-2005 15-07-2004 29-04-2004	
WO 2004038512	Α	06-05-2004	AU US	2003274744 A1 2005260514 A1	13-05-2004 24-11-2005	
WO 2004044213	Α	27-05-2004	AU JP	2003274742 A1 2004162044 A	03-06-2004 10-06-2004	
WO 2004061530	Α	22-07-2004	AU EP JP	2003295241 A1 1579277 A1 2005154699 A	29-07-2004 28-09-2005 16-06-2005	

PATENT COOPERATION TREATY

То:					PCI			
see form PCT/ISA/220				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)				
				Date of mailing (day/month/year) see	e form PCT/ISA/210 (second sheet)			
	cant's or agent's file i form PCT/ISA/22			FOR FURTHER / See paragraph 2 belo	ACTION			
	national application N UP2005/010998		International filing date (d 09.06.2005	lay/month/year)	Priority date (day/month/year) 11.06.2004			
	national Patent Class G63/688, C08G6							
Appli CAN	icant NON KABUSHIK	I KAISHA						

1.	This opinion co	ntains indicati	ons relating to the follo	owing items:				
	⊠ Box No. I	Basis of the op	pinion					
	☐ Box No. II	Priority						
	☐ Box No. III	Non-establish	ment of opinion with rega	ard to novelty, inventi-	ve step and industrial applicability			
	☐ Box No. IV	Lack of unity of						
	☑ Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
	☑ Box No. VI							
	☐ Box No. VII	• •						
	☐ Box No. VIII	/III Certain observations on the international application						
2.	FURTHER ACTI	ON						
	written opinion o	f the Internation coses an Authoreau under Rule	nal Preliminary Examining rity other than this one to	g Authority ("IPEA"). be the IPEA and the	Il usually be considered to be a However, this does not apply where e chosen IPEA has notifed the ational Searching Authority			
	submit to the IPI	EA a written rep date of mailing	ly together, where appro	poriate, with amenom	IPEA, the applicant is invited to ents, before the expiration of three n of 22 months from the priority date,			
	For further optio	ns, see Form P	CT/ISA/220.					
3.	For further detai	ls, see notes to	Form PCT/ISA/220.					

Niaounakis, M

Telephone No. +31 70 340-3818

Form (PCT/ISA/237) (Cover Sheet) (January 2004)

European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016

IAP5 Rec'd PCT/PTO 10 FEB 2006

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2005/010998

10/567762

	Box N	lo. I	Basis of the opinion			
1.	With r	egarongua;	to the language , this opinion has been established on the basis of the international application in ge in which it was filed, unless otherwise indicated under this item.			
	la	angua	pinion has been established on the basis of a translation from the original language into the following age, which is the language of a translation furnished for the purposes of international search. Rules 12.3 and 23.1(b)).			
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
	a. typ	e of r	naterial:			
		a s	equence listing			
		tab	ele(s) related to the sequence listing			
	b. for	mat d	of material:			
		in v	written format			
		in	computer readable form			
	c. tim	e of f	iling/furnishing:			
		co	ntained in the international application as filed.			
		file	ed together with the international application in computer readable form.			
		fur	nished subsequently to this Authority for the purposes of search.			
3.	ł	nas b copie:	dition, in the case that more than one version or copy of a sequence listing and/or table relating thereto een filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.			
4	. Addit	tional	comments:			

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-10

No:

Inventive step (IS)

Yes: Claims

Claims

1-10

Vo: Claims

Industrial applicability (IA)

Yes: Claims

1-10

No: Claims

2. Citations and explanations

see separate sheet

Box No. VI Certain documents cited

 Certain published documents (Rules 43bis.1 and 70.10) and / or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

Re Item V.

Reference is made to the following documents (D1-D3), especially to the passages referred to in the Search Report; the numbering will be adhered to in the rest of the procedure:

D1: EP 1 336 635 A (CANON KABUSHIKI KAISHA) 20 August 2003 (2003-08-20)

D2: WO 2004/038512 A (CANON KABUSHIKI KAISHA; MIHARA, CHIEKO; YANO, TETSUYA; KOZAKI, SHINYA;) 6 May 2004 (2004-05-06)

D3: WO 2004/044213 A (CANON KABUSHIKI KAISHA; KENMOKU, TAKASHI; YANO, TETSUYA; MIHARA, CHIEK) 27 May 2004 (2004-05-27)

D1 relates to a polyxyhdroxyalkanoate which contains a unit having an amide group and a sulfonic acid group on a side-chain. However, the structure of the side-chain of the polyhydroxyalkanoate of D1 is different from the side-chain of the polyhydroxyalkanoate of the present application (formula 1 of claim 1) because it contains additionally a sulfide group (-S-).

D2 relates to a polyhydroxyalkanoate copolymer which contains a unit having a carboxyl group on a side chain. Although the side-chain of the polyhydroxyalkanoate of D1 is similar to the side-chain of the polyhydroxyalkanoate of the present application (formula 5 of claim 3), the structure of its main-chain is different.

D3 relates to a polyhydroxyalkanoate copolymer which contains a unit having a vinyl group on a side chain. Although the side-chain of the polyhydroxyalkanoate of D1 is similar to the side-chain of the polyhydroxyalkanoate of the present application (formula 6 of claim 4), the structure of its main-chain is different.

Therefore, the subject-matter of claims: 1-10 is considered to be novel and inventive (Article 33(1)(2)(3) PCT).

Furthermore, all claims fulfill the requirements of industrial applicability (Article 33(4) PCT).

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